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S1000-265
Biologically Active Agent (Plant Extract)

Non-Confidential Description

The invention comprises a biologically active agent produced by a certain plant. Antibiotic activity has been demonstrated against flora of the human oral cavity, Streptococcus faecalis, Staphylococcus aureus, Proteus vulgaris, Pseudomonas aeruginosa and E. coli. Use of buffers extends the activity over a wide pH range. Additional research on the technology includes the development of improved extraction techniques, and the assessment of the effect of the agent on the bacterium Helicobacter pylori.

Advantages

- The invention may be prepared and tested simply and inexpensively.
- Supply of the agent is assured by an abundantly available natural source.
- The agent has the potential of becoming a broad-spectrum antibiotic for use on wounds and as treatment for bacterial-induced gastric ulcers.
- Possibilities may exist for its use as chemotherapy treatment.

Patent Status

Additional information is available under terms of a Confidentiality Agreement.

Licensing Information

For information on licensing this technology, contact:

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Research Projects

Design of Biologically Active Biodegradable Biomaterials

The objective of this project is to chemically design synthetic biodegradable biomaterials that would have some biological activities so that they could "actively" participate in the tissue reconstruction and repair. All existing synthetic-based biomaterials do not actively participate in tissue repair & wound healing and they only act passive in terms of foreign body reactions. We are exploring innovative chemical means to make these biologically "inactive" biomaterials "active" after implantation so that they could not only serve the functions of the implant but also actively participate & promote the healing and functions of the implants. The applications of this class of new biomaterials would range from cardiovascular, orthopaedic, skin, wound healing, to drug control/release devices. This project has led to 2 US Patents so far and some of our findings have recently been published.





Keun-Ho Lee and C. C. **Chu**, "Molecular design of biologically active biodegradable polymers for biomedical applications", *Macromol. Symposium* (Huthig & Wepf Verlag. Zug) 130: 71-80, (1998).

Chee-Youb Won, C. C. **Chu**, & J. D. Lee, "Synthesis and Characterization of Novel Biodegradable Poly(L-aspartic acid-co-PEG)", *J. Polym. Sci., Chemistry Ed.*, 36:2949-2959, (1998).

Chee-Youb Won, C. C. **Chu**, & J. D. Lee, "Novel biodegradable copolymers containing pendant amine functional groups based on asparatic acid and poly(ethylene glycol)", *Polymer*, 39(25): 6677-6681, (1998).


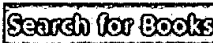

Chee-Youb Won & C. C. **Chu**, "Inulin polysaccharide having pendant amino acids: Synthesis and characterization", *J. Appl. Polym. Sci.*, 70:953-963, (1998).

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Biologically Active Natural Products: Agrochemicals

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Edited by Horace G Cutler and Stephen J Cutler
CRC Press June 1999

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Natural products that have both plant growth regulatory properties and pharmaceutical properties are examined in this book making this the first and most up-to-date text linking agrochemistry and pharmaceutical chemistry in an easy to read presentation for practitioners in both fields. Due to the intense and widespread attention being given to the undesirable side-effects of commercial herbicide products such as residual contamination, resistance, ecosystem impairments, and waste generation, the discovery of new, natural herbicides that are biologically safe will prove to be significant and profitable. It features over 200 tables of value to those in the agrochemical and pharmaceutical industries, as well as those in biochemistry, plant pathology, and natural products study and development.

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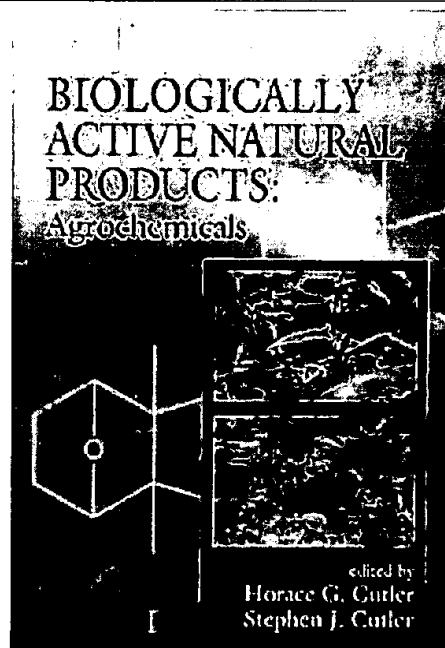
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Natural products that have both plant growth regulatory properties and pharmaceutical properties are examined in this book. This is the first and most up-to-date text linking agrochemistry and pharmaceutical chemistry in an easy to read presentation for practitioners in both fields.



Due to the intense and widespread attention being given to the undesirable side-effects of commercial herbicide products such as residual contamination, resistance, ecosystem impairments, and waste generation, the discovery of new, natural herbicides that are biologically safe will prove to be significant and profitable.

Featuring over 200 tables, **Biologically Active Natural Products: Agrochemicals** is very useful to those in the agrochemical and pharmaceutical industries, as well as those in biochemistry, plant pathology, and natural products study and development.

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- Presents and examines biochemicals for agriculture from microorganisms
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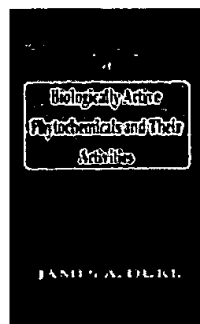
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Author: James A. Duke

Publisher: CRC Press

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This book is being considered for further review, but we do not yet have a copy in hand. 

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7. **Compiler/Provider:** James A. Duke
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